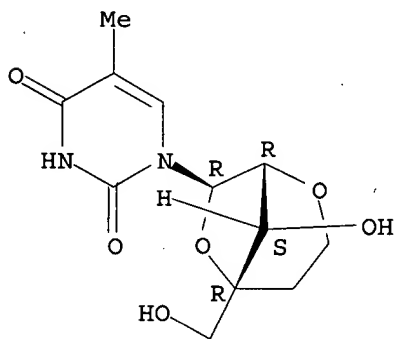


EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(ENA AND nucleoside AND nucleotide).clm.	US-PGPU B	OR	ON	2007/07/03 11:41
L2	14	(locked AND nucleoside AND nucleotide).clm.	US-PGPU B	OR	ON	2007/07/03 11:41

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 287737-38-6 REGISTRY
CN 2,4(1H,3H)-Pyrimidinedione, 1-[2,6-anhydro-5-deoxy-4-C-(hydroxymethyl)-
α-L-lyxo-hexofuranosyl]-5-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H16 N2 O6
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:453230 CAPLUS
DOCUMENT NUMBER: 141:23857
TITLE: Preparation of novel 2',5'-oligoadenylic acid analogues as antitumor agents
INVENTOR(S): Koizumi, Makoto; Morita, Koji
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 220 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046161	A1	20040603	WO 2003-JP14748	20031119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2004182725	A	20040702	JP 2003-388199	20031118
CA 2506581	A1	20040603	CA 2003-2506581	20031119
AU 2003284578	A1	20040615	AU 2003-284578	20031119
EP 1568704	A1	20050831	EP 2003-774061	20031119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003016431	A	20051011	BR 2003-16431	20031119
CN 1738829	A	20060222	CN 2003-80108962	20031119
NZ 539979	A	20070531	NZ 2003-539979	20031119
US 2005261235	A1	20051124	US 2005-131412	20050516
ZA 2005004017	A	20060222	ZA 2005-4017	20050518
NO 2005002975	A	20050818	NO 2005-2975	20050617
IN 2005KN01188	A	20061103	IN 2005-KN1188	20050620
PRIORITY APPLN. INFO.:			JP 2002-334731	A 20021119
			WO 2003-JP14748	W 20031119
OTHER SOURCE(S):	MARPAT 141:23857			
REFERENCE COUNT:	40	THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L12 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:461955 CAPLUS
DOCUMENT NUMBER: 139:303411
TITLE: Triplex formation with 2'-O,4'-C-ethylene-bridged nucleic acids (ENA) having C3'-endo conformation at physiological pH
AUTHOR(S): Koizumi, Makoto; Morita, Koji; Daigo, Makiko; Tsutsumi, Shinya; Abe, Koji; Obika, Satoshi; Imanishi, Takeshi
CORPORATE SOURCE: Exploratory Chemistry Research Laboratories, Biomedical Research Laboratories, Sankyo Co. Ltd., Tokyo, 14-8710, Japan
SOURCE: Nucleic Acids Research (2003), 31(12), 3267-3273
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:320053 CAPLUS
DOCUMENT NUMBER: 138:349664
TITLE: Modified antisense oligonucleotides for
down-regulation of VEGF mRNA expression
INVENTOR(S): Koizumi, Makoto; Morita, Koji
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033696	A1	20030424	WO 2002-JP10796	20021017
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003192692	A	20030709	JP 2002-295583	20021009
AU 2002335522	A1	20030428	AU 2002-335522	20021017
PRIORITY APPLN. INFO.:			JP 2001-320096	A 20011018
			WO 2002-JP10796	W 20021017

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:311216 CAPLUS
DOCUMENT NUMBER: 140:42417
TITLE: Synthesis and properties of 2'-O,4'-C-Ethylene-Bridged nucleic acids (ENA) as effective antisense oligonucleotides
AUTHOR(S): Morita, Koji; Takagi, Miho; Hasegawa, Chikako; Kaneko, Masakatsu; Tsutsumi, Shinya; Sone, Junko; Ishikawa, Tomio; Imanishi, Takeshi; Koizumi, Makoto
CORPORATE SOURCE: Exploratory Chemistry Research Laboratories, Sankyo Co., Ltd., Tokyo, 140-8710, Japan
SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(10), 2211-2226
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:42417
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:974510 CAPLUS
DOCUMENT NUMBER: 138:181616
TITLE: Effects on RNA interference in gene expression (RNAi) in cultured mammalian cells of mismatches and the introduction of chemical modifications at the 3'-ends

AUTHOR(S): of siRNAs
 Hamada, Makiko; Ohtsuka, Toshiaki; Kawaida, Reimi;
 Koizumi, Makoto; Morita, Koji; Furukawa, Hidehiko;
 Imanishi, Takeshi; Miyagishi, Makoto; Taira, Kazunari
 CORPORATE SOURCE: Biomedical Research Laboratories, Sankyo Co., Ltd.,
 Tokyo, 140-8710, Japan
 SOURCE: Antisense & Nucleic Acid Drug Development (2002),
 12(5), 301-309
 CODEN: ANADF5; ISSN: 1087-2906
 PUBLISHER: Mary Ann Liebert, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:847786 CAPLUS
 DOCUMENT NUMBER: 137:338099
 TITLE: 2'-O,4'-C-ethylene-bridged nucleoside triphosphates
 RNA polymerase substrates and influenza drug
 INVENTOR(S): Koizumi, Makoto; Morita, Hiroshi; Kaneko, Masakatsu;
 Imanishi, Takeshi
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002322192	A	20021108	JP 2001-241032	20010808
PRIORITY APPLN. INFO.:			JP 2000-242233	A 20000810
OTHER SOURCE(S):	MARPAT 137:338099			

L12 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:648429 CAPLUS
 DOCUMENT NUMBER: 137:217175
 TITLE: Preparation of 2'-O,4'-C-ethylene nucleoside analogs
 and oligonucleotide analogs and nucleic acid reagent
 and drugs containing them
 INVENTOR(S): Kaneko, Masakatsu; Morita, Hiroshi; Imanishi, Takeshi
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 49 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002241393	A	20020828	JP 2001-241033	20010808
PRIORITY APPLN. INFO.:			JP 2000-242247	A 20000810
OTHER SOURCE(S):	MARPAT 137:217175			

L12 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:900078 CAPLUS
 DOCUMENT NUMBER: 136:263373
 TITLE: 2'-O,4'-C-ethylene-bridged nucleic acids (ENA): highly
 nuclease-resistant and thermodynamically stable
 oligonucleotides for antisense drug
 AUTHOR(S): Morita, Koji; Hasegawa, Chikako; Kaneko, Masakatsu;

CORPORATE SOURCE: Tsutsumi, Shinya; Sone, Junko; Ishikawa, Tomio;
 Imanishi, Takeshi; Koizumi, Makoto
 Sankyo Co., Ltd., Exploratory Chemistry Research
 Laboratories, Tokyo, 140-8710, Japan
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2001),
 Volume Date 2002, 12(1), 73-76
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:263373
 REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:573812 CAPLUS
 DOCUMENT NUMBER: 133:164266
 TITLE: Preparation of novel nucleosides and oligonucleotide
 analogues having antisense or antigene activity
 INVENTOR(S): Kaneko, Masakatsu; Morita, Koji; Imanishi, Takeshi
 PATENT ASSIGNEE(S): Sankyo Company, Ltd., Japan
 SOURCE: PCT Int. Appl., 110 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047599	A1	20000817	WO 2000-JP725	20000210
W: AU, BR, CA, CN, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PL, RU, TR, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2361318	A1	20000817	CA 2000-2361318	20000210
AU 200024598	A	20000829	AU 2000-24598	20000210
AU 758956	B2	20030403		
EP 1152009	A1	20011107	EP 2000-902887	20000210
EP 1152009	B1	20050126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200102328	T2	20020121	TR 2001-2328	20000210
BR 2000008131	A	20020409	BR 2000-8131	20000210
HU 200105367	A2	20020529	HU 2001-5367	20000210
NZ 513402	A	20030630	NZ 2000-513402	20000210
RU 2233844	C2	20040810	RU 2001-124910	20000210
AT 287897	T	20050215	AT 2000-902887	20000210
PT 1152009	T	20050331	PT 2000-902887	20000210
ES 2234563	T3	20050701	ES 2000-902887	20000210
CZ 296576	B6	20060412	CZ 2001-2574	20000210
TR 200604211	T1	20070221	TR 2006-4211	20000210
TW 513438	B	20021211	TW 2000-89102314	20000211
JP 2000297097	A	20001024	JP 2000-34560	20000214
JP 3420984	B2	20030630		
IN 2001KN00794	A	20050902	IN 2001-KN794	20010803
ZA 2001006544	A	20021108	ZA 2001-6544	20010808
US 2002147332	A1	20021010	US 2001-925673	20010809
NO 2001003899	A	20011010	NO 2001-3899	20010810
NO 320441	B1	20051205		
MX 2001PA08145	A	20011203	MX 2001-PA8145	20010810
HK 1040084	A1	20050422	HK 2002-101460	20020226
US 2003207841	A1	20031106	US 2003-430705	20030505
PRIORITY APPLN. INFO.:			JP 1999-33863	A 19990212

WO 2000-JP725
US 2001-925673

W 20000210
A3 20010809

OTHER SOURCE(S):
REFERENCE COUNT:

MARPAT 133:164266

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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